

Message

From: Strock, Troy [strock.troy@epa.gov]
Sent: 11/18/2020 8:10:47 PM
To: Romanski, Autumn R [Autumn.Romanski@ncdenr.gov]
CC: Stowell, Jacob [Stowell.Jacob@epa.gov]; latropulos, Jamie [latropulos.jamie@epa.gov]; hallowell.robyn@epa.gov; Connell, Rebecca [Connell.Rebecca@epa.gov]; Kirkland, Kim [Kirkland.Kim@epa.gov]; Gaines, Linda [Gaines.Linda@epa.gov]; Fitz-James, Schatzi [Fitz-James.Schatzi@epa.gov]; Strynar, Mark [Strynar.Mark@epa.gov]; Reimer, Steve [Reimer.Steve@epa.gov]; Reese, Diane [Reese.Diane@epa.gov]; Hurlbut, Daniel B. [Hurlbut.Daniel@epa.gov]
Subject: FW: Question on PFAS Lab Methods being used and Matrix interference issues

Autumn- Mark Strynar provided some advice below about how a lab might test for these chemicals. You might follow up with him if you have related questions.

Troy Strock, chemist
SW-846 Methods Program
US EPA ORCR Waste Management Branch
Phone: 703.308.8637 (Office)
e-mail: strock.troy@epa.gov

From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Wednesday, November 18, 2020 2:30 PM
To: Strock, Troy <strock.troy@epa.gov>; McCord, James <mccord.james@epa.gov>; Mills, Marc <mills.marc@epa.gov>; Impellitteri, Christopher <Impellitteri.Christopher@epa.gov>
Subject: RE: Question on PFAS Lab Methods being used and Matrix interference issues

Troy,

I had not yet seen this but I do have some suggestions. [REDACTED]

[REDACTED]
details.

My first suggestion would be to try Method 533 for these analytes rather than Method 537.1. The reason is 537.1 I [REDACTED]
methanol. This does not mean all matrix interferents will be removed. Second when performing chromatography a [REDACTED] the PFAS analytes above.

I am glad to have follow-up on this with whomever wants more in the thread below.

Mark

From: Strock, Troy <strock.troy@epa.gov>
Sent: Wednesday, November 18, 2020 1:05 PM
To: McCord, James <mccord.james@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>; Mills, Marc <mills.marc@epa.gov>; Impellitteri, Christopher <Impellitteri.Christopher@epa.gov>
Subject: FW: Question on PFAS Lab Methods being used and Matrix interference issues

You may be able to help with the question below about testing for small partially fluorinated organic acids. If this message made it to you already please disregard. Thanks!

Troy Strock, chemist
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e-mail: strock.troy@epa.gov

From: Reimer, Steve <Reimer.Steve@epa.gov>
Sent: Monday, November 09, 2020 10:52 AM
To: Gaines, Linda <Gaines.Linda@epa.gov>; Connell, Rebecca <Connell.Rebecca@epa.gov>
Cc: Strock, Troy <strock.troy@epa.gov>; Reese, Diane <Reese.Diane@epa.gov>; Kirkland, Kim <Kirkland.Kim@epa.gov>; Fitz-James, Schatzi <Fitz-James.Schatzi@epa.gov>
Subject: RE: Question on PFAS Lab Methods being used and Matrix interference issues

These are compounds that are most likely only seen by labs using non-targeted methods.
None of the methods we have are going to be applicable to these short chain highly polar molecules.

From: Connell, Rebecca
Sent: Monday, October 19, 2020 4:58 PM
To: Gaines, Linda <Gaines.Linda@epa.gov>
Cc: Jamie Iatropulos (<iatropulos.jamie@epa.gov> <iatropulos.jamie@epa.gov>); Linda Tekrony (<Tekrony.Linda@epa.gov> <Tekrony.Linda@epa.gov>); Daren Vanlerberghe (<Vanlerberghe.Daren@epa.gov> <Vanlerberghe.Daren@epa.gov>)
Subject: FW: Question on PFAS Lab Methods being used and Matrix interference issues

Hi Linda,

Ex. 7(A)

On a side note, I just forwarded your call invite to Daren Vanlerberghe from my group who has been leading all of our PFAS work. I think it would be helpful to have greater awareness of all the great information you've been pulling together.

Thanks!

Rebecca Connell

Field Branch Chief
National Enforcement Investigations Center
US Environmental Protection Agency

303-462-9253

Ex. 6 Personal Privacy (PP) (bell)

connell.rebecca@epa.gov

From: Romanski, Autumn R <Autumn.Romanski@ncdenr.gov>

Sent: Monday, October 19, 2020 11:34 AM

To: Stowell, Jacob <Stowell.Jacob@epa.gov>; Iatropulos, Jamie <latropulos.jamie@epa.gov>; hallowell.robyn@epa.gov

Subject: Question on PFAS Lab Methods being used and Matrix interference issues

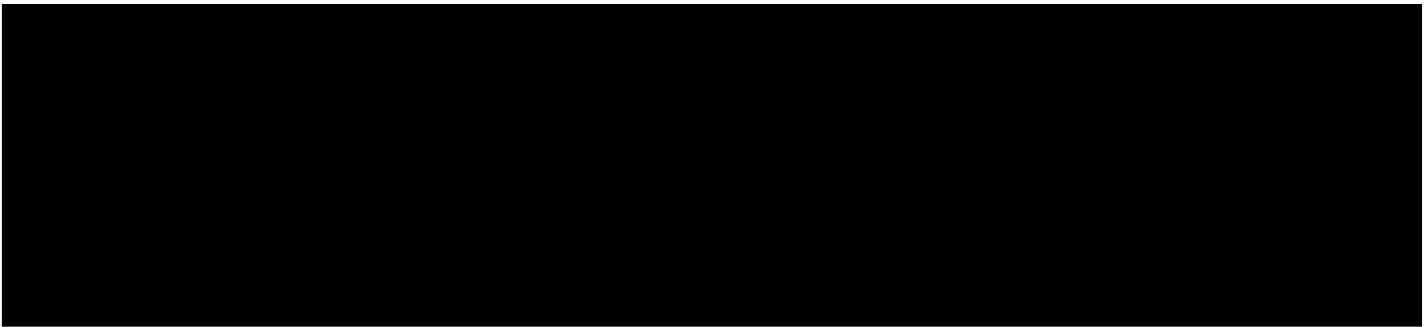
Hi Jacob, Jamie, and Robyn,

I am reaching out to the three of you at the NEIC Lab in Colorado (whom I met at Chuck Ramsey's Sampling Class), to see if you have comments or recommendations that could be helpful for PFAS Investigations.

The State of NC, Dept. of Environmental Quality has collected copious amounts of PFAS sample results. Sample results have been obtained by our staff, and consultants, and samples were routinely sent to usually one of two labs, Gel Lab and Eurofins/Test America.

The method most used for groundwater sampling (the largest data set we have) was the modified method 537.1 and we have requested analysis for 33 PFAS compounds. We have also collected and analyzed surface water, wastewater, stormwater, and soil in some locations of known PFAS release.

We are interested in learning about other sampling efforts regarding PFAS, and the Methods being used for various media, and any issues of matrix interference in the lab.



Recent communications indicated that sample results for these four compounds should not continue to be analyzed, and reported until the identification of "causative sources of these matrix interference issues, assessing using enhanced internal reference standards to calibrate the concentrations of these compounds, and assessing the ability to enhance the analytical methodologies used including evaluating alternative liquid chromatography stationary phases and optimization of mass spectrometric ionization techniques."

*Just thought I would reach out to NEIC Lab for any general recommendations on sampling PFAS groundwater (and other media), sampling methods being used, and any lessons learned in the lab to date on matrix interference with regards to MMF, DFSA, MTP and PPF Acid, if applicable to any PFAS sampling conducted, or samples being analyzed for PFAS compounds at the NEIC Lab.

**If I should check in with other contacts that are conducting PFAS sampling? Please provide referral contact information, if able.

Any assistance you are able to provide would be greatly appreciated.

Thank you for your time and consideration.

Sincerely,

Autumn Romanski

**Eastern Environmental Chemist
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Hazardous Waste Section**

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